

Target 6B

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Solve each system by substitution.

$$\begin{aligned} 1) \quad y &= -4x - 3 \\ -6x + 7y &= 13 \end{aligned}$$

$$\begin{aligned} 2) \quad -9x + 3y &= -54 \\ y &= 3x - 18 \end{aligned}$$

$$\begin{aligned} 3) \quad y &= -8x - 15 \\ y &= x + 3 \end{aligned}$$

$$\begin{aligned} 4) \quad -3x - 3y &= 3 \\ x + 5y &= -5 \end{aligned}$$

$$\begin{aligned} 5) \quad -3x - 6y &= -3 \\ x + 4y &= 9 \end{aligned}$$

$$\begin{aligned} 6) \quad 2x + 3y &= -2 \\ -4x - 4y &= 8 \end{aligned}$$

Solve each system by elimination.

$$\begin{aligned} 7) \quad 2x + 9y &= 0 \\ -2x - 7y &= -4 \end{aligned}$$

$$\begin{aligned} 8) \quad 10x + 5y &= 5 \\ 7x - 5y &= -22 \end{aligned}$$

$$\begin{aligned} 9) \quad 9x - 2y &= 0 \\ 9x + 4y &= 0 \end{aligned}$$

$$\begin{aligned} 10) \quad -12x + y &= 2 \\ 6x + 7y &= 14 \end{aligned}$$

$$\begin{aligned} 11) \quad x - 12y &= 25 \\ 9x + 4y &= 1 \end{aligned}$$

$$\begin{aligned} 12) \quad -5x + 6y &= 16 \\ 2x + 8y &= 4 \end{aligned}$$

Answers to Target 6B

- 1) $(-1, 1)$
- 4) $(0, -1)$
- 8) $(-1, 3)$
- 12) $(-2, 1)$

- 2) Infinite number of solutions

- 5) $(-7, 4)$

- 9) $(0, 0)$

- 3) $(-2, 1)$

- 6) $(-4, 2)$

- 10) $(0, 2)$

- 7) $(9, -2)$

- 11) $(1, -2)$